

# **LINAC COMMISSIONING FORM**

24-Sep-2001

**Major Category :** DTL Tank 2-6

**Sub-Category :** Beam sub-category for DTL Tank 5

**Sub-System :** rf set-point

**Objective:** To find the rf set-point of the DTL Tank 5 using Phase Scan/Acceptance Scan and other technique

**Requested by :** Jim Stovall (LANL) and Dong-o Jeon (SNS)

**Date Proposed :** January 2004

**Estimated Time to Complete :** 11 shifts

**Estimated Manpower to Complete :** 33 man-shifts

**Priority/Order:** high / 1

**Basic Equipment Needs :** Fully functioning components up to DTL Tank 4

**Special Equipment Needs :** None

**Software/Application needs :** T.B.D.

**Input Beam Requirements :** Beam up to 50 $\mu$ s pulse up to the full current

**Other prerequisites :** None

**Correlations Sought :** Time-of-flight vs. rf amplitude/phase (Phase Scan)  
Transmission vs. rf amplitude/phase (Acceptance Scan)

**Procedure:** Obtain optimal fitting to design while scanning rf variable space

**Supporting Computations :** None

**Problems Expected :** Possible beam loss initially due to closed-orbit errors

**Comments:**

**Date Completed LANL:**

**Date Completed ORNL:**

**Results:**

**Problems Encountered:**